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FILE 'HOME' ENTERED AT 15:02:19 ON 30 SEP 2004

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FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
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FILE 'AGRICOLA' ENTERED AT 15:02:28 ON 30 SEP 2004

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FILE 'CAPLUS' ENTERED AT 15:02:28 ON 30 SEP 2004
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=> s dxs and transform? and plant
L1 14 DXS AND TRANSFORM? AND PLANT

=> duplicate remove l1
DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L1
L2 12 DUPLICATE REMOVE L1 (2 DUPLICATES REMOVED)

=> s HPPD and transform? and plant
L3 23 HPPD AND TRANSFORM? AND PLANT

=> duplicate remove l3
DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, CAPLUS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L3
L4 20 DUPLICATE REMOVE L3 (3 DUPLICATES REMOVED)

=> s l2 and l4
L5 5 L2 AND L4

=> d 15 1-5 ibib ab

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:120971 CAPLUS

DOCUMENT NUMBER: 140:177318

TITLE: Plant genes for sequence homologs of phytol kinase of tocopherol biosynthesis and their use in engineering plant tocopherol profiles and drought resistance

INVENTOR(S): Norris, Susan R.; Lincoln, Kim; Abad, Mark Scott; Eilers, Robert; Hartsuyker, Karen Kindle; Hirschberg, Joseph; Karunanananda, Balasulajini; Moshiri, Farhad; Stein, Joshua C.; Valentin, Henry E.; Venkatesh, Tyamagondlu V.

PATENT ASSIGNEE(S): Monsanto Technology, Llc, USA; et al.

SOURCE: PCT Int. Appl., 189 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004013312	A2	20040212	WO 2003-US25276	20030805
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,				

TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
 CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
 NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
 GW, ML, MR, NE, SN, TD, TG

US 2004045051 A1 20040304 US 2003-634548 20030805
 PRIORITY APPLN. INFO.: US 2002-400689P P 20020805
US 2003-634548 A 20030805

AB A gene involved in the phosphorylation of tocopherols is identified in *Arabidopsis thaliana* and sequence homologs are identified in other **plants**. The gene may be useful in altering patterns of tocopherol biosynthesis in **plants** in the generation of novel secondary metabolites (no data.) and in the improvement **plant** resistance to drought stress. The gene was first identified by a mutation in the LTT1 gene leading to accumulation of phytols in *Arabidopsis*. Expression of the cloned gene in soybean led to changes in the tocopherol profile of seeds.

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:610132 CAPLUS

DOCUMENT NUMBER: 139:175849

TITLE: **Plant** genes for sequence homologs of methyltransferases of tocopherol biosynthesis and their use in engineering **plant** tocopherol profiles

INVENTOR(S): Norris, Susan R.; Lincoln, Kim; Stein, Joshua C.; Valentin, Henry E.; Van Eenennaam, Alison

PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 149 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003150015	A1	20030807	US 2002-279029	20021024
WO 2003034812	A2	20030501	WO 2002-US34079	20021024
WO 2003034812	A3	20040226		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1444348	A2	20040811	EP 2002-776280	20021024
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				

PRIORITY APPLN. INFO.: US 2001-330563P P 20011025
WO 2002-US34079 W 20021024

AB A gene involved in the methylation of tocopherols is identified in *Arabidopsis thaliana* and sequence homologs are identified in other **plants**. The gene may be useful in altering patterns of tocopherol biosynthesis in **plants** in the generation of novel secondary metabolites (no data.). More particularly, the present invention provides and includes nucleic acid mols., proteins, and antibodies associated with genes that encode polypeptides that have methyltransferase activity in the synthesis of tocopherols, such as γ -tocopherol methyltransferase and

2-methylphytylplastoquinol methyltransferase. γ -Tocopherol methyltransferase genes are provided from *Arabidopsis thaliana*, rice, corn, *Brassica* and cotton. The gene was first identified by a mutation leading to accumulation of δ -tocopherol in *Arabidopsis*. Expression of the cloned gene in soybean led to changes in the tocopherol profile of seeds.

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:376457 CAPLUS

DOCUMENT NUMBER: 138:380481

TITLE: Sequences of soybean seed specific 7S α promoters and use for expressing genes in plants

INVENTOR(S): Wang, Qi; Dubois, Patrice

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 38 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003093828	A1	20030515	US 2002-235618	20020905
WO 2003020016	A2	20030313	WO 2002-US30374	20020905
WO 2003020016	A3	20040506		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1440151	A2	20040728	EP 2002-775982	20020905
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2001-316975P	P 20010905
			WO 2002-US30374	W 20020905

AB This invention provides sequences of soybean seed specific 7S α promoters capable of transcribing heterologous nucleic acid sequences in seeds, and methods of modifying, producing, and using the promoter for expressing genes in plants. The invention also provides compns., transformed host cells, transgenic plants, and seeds containing the high-expression promoters, and methods for preparing and using the same.

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:154561 CAPLUS

DOCUMENT NUMBER: 138:200982

TITLE: Plant genes encoding methyltransferase products involved in tocopherol biosynthesis and their use in transforming plants for modified tocopherol composition

INVENTOR(S): Van Eenennaam, Alison; Valentin, Henry E.; Karunananada, Balasulajini; Hao, Ming; Aasen, Eric; Levering, Charlene

PATENT ASSIGNEE(S): Monsanto Technology LLC, USA

SOURCE: PCT Int. Appl., 218 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016482	A2	20030227	WO 2002-US26047	20020816
WO 2003016482	A3	20040219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003154513	A1	20030814	US 2002-219810	20020816
EP 1427832	A2	20040616	EP 2002-766004	20020816
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2001-312758P	P 20010817
			WO 2002-US26047	W 20020816

AB The present invention relates to genes associated with the tocopherol biosynthesis pathway. More particularly, the present invention provides and includes nucleic acid mols., proteins, and antibodies associated with genes that encode polypeptides that have methyltransferase activity in the synthesis of tocopherols, such as γ -tocopherol methyltransferase and 2-methyl-6-phytanylplastoquinol/2-methyl-6-solanylplastoquinol-9 methyltransferase. γ -Tocopherol methyltransferase genes are provided from *Arabidopsis thaliana*, *Oryza sativa*, *Zea mays*, *Gossypium hirsutum*, *Cuphea pulcherrima*, *Brassica napus*, *Lycopersicon esculentum*, *Glycine max*, *Tagetes erecta*, and *Lilium asiaticum*. Homologs previously identified as Δ 24-sterol C-methyltransferase (EC 2.1.1.41) are also identified in cyanobacteria (*Anabaena*, *Synechocystis*, *Nostoc punctiforme*) and *Prochlorococcus marinus*. The present invention also provides methods for utilizing such agents, for example in gene isolation, gene anal. and the production of transgenic plants. Moreover, the present invention includes transgenic plants modified to express the aforementioned polypeptides. In addition, the present invention includes methods for the production of products from the tocopherol biosynthesis pathway.

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:868650 CAPLUS

DOCUMENT NUMBER: 137:364394

TITLE: Generation of transgenic plants with enhanced tocopherol concentrations by cloning microbial gene tyrA

INVENTOR(S): Valentin, Henry E.; Mitsky, Timothy A.

PATENT ASSIGNEE(S): Monsanto Technology LLC, USA

SOURCE: PCT Int. Appl., 206 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002089561	A1	20021114	WO 2002-US13898	20020503
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI; GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1392106 A1 20040303 EP 2002-726831 20020503
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 BR 2002009483 A 20040706 BR 2002-9483 20020503
 PRIORITY APPLN. INFO.: US 2001-289527P P 20010509
 WO 2002-US13898 W 20020503

AB The present invention is in the field of **plant** genetics and biochem. More specifically, the invention relates to genes associated with the tocopherol biosynthesis pathway. The present invention provides and includes nucleic acid mols., proteins, and antibodies associated with the genes of the tocopherol biosynthesis pathway. The present invention also provides methods for utilizing such agents, for example in gene isolation, gene anal. and the production of transgenic **plants**. Moreover, the present invention includes transgenic **plants** modified to express proteins associated with the tocopherol pathway. In addition, the present invention includes methods for the production of products from the tocopherol biosynthesis pathway. Thus, *Arabidopsis thaliana* **transformed** with gene *tyrA* and other tocopherol biosynthesis genes produced significantly higher levels of tocotrienols and tocopherols when compared to the untransformed **plant**.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 12 1-5 ibib

L2 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2004:120971 CAPLUS
 DOCUMENT NUMBER: 140:177318
 TITLE: **Plant** genes for sequence homologs of phytol kinase of tocopherol biosynthesis and their use in engineering **plant** tocopherol profiles and drought resistance
 INVENTOR(S): Norris, Susan R.; Lincoln, Kim; Abad, Mark Scott; Eilers, Robert; Hartsuyker, Karen Kindle; Hirschberg, Joseph; Karunanananda, Balasulojini; Moshiri, Farhad; Stein, Joshua C.; Valentin, Henry E.; Venkatesh, Tyamagondlu V.
 PATENT ASSIGNEE(S): Monsanto Technology, Llc, USA; et al.
 SOURCE: PCT Int. Appl., 189 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004013312	A2	20040212	WO 2003-US25276	20030805
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 US 2004045051 A1 20040304 US 2003-634548 20030805
 PRIORITY APPLN. INFO.: US 2002-400689P P 20020805
 US 2003-634548 A 20030805

L2 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:154561 CAPLUS
 DOCUMENT NUMBER: 138:200982
 TITLE: **Plant genes encoding methyltransferase products involved in tocopherol biosynthesis and their use in transforming plants for modified tocopherol composition**
 INVENTOR(S): Van Eenennaam, Alison; Valentin, Henry E.; Karunanananda, Balasulajini; Hao, Ming; Aasen, Eric; Levering, Charlene
 PATENT ASSIGNEE(S): Monsanto Technology LLC, USA
 SOURCE: PCT Int. Appl., 218 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016482	A2	20030227	WO 2002-US26047	20020816
WO 2003016482	A3	20040219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003154513	A1	20030814	US 2002-219810	20020816
EP 1427832	A2	20040616	EP 2002-766004	20020816
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2001-312758P P 20010817	
			WO 2002-US26047 W 20020816	

L2 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:610132 CAPLUS
 DOCUMENT NUMBER: 139:175849
 TITLE: **Plant genes for sequence homologs of methyltransferases of tocopherol biosynthesis and their use in engineering plant tocopherol profiles**
 INVENTOR(S): Norris, Susan R.; Lincoln, Kim; Stein, Joshua C.; Valentin, Henry E.; Van Eenennaam, Alison
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 149 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003150015	A1	20030807	US 2002-279029	20021024
WO 2003034812	A2	20030501	WO 2002-US34079	20021024
WO 2003034812	A3	20040226		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1444348	A2	20040811	EP 2002-776280	20021024
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
PRIORITY APPLN. INFO.:			US 2001-330563P	P 20011025
			WO 2002-US34079	W 20021024

L2 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:376457 CAPLUS
 DOCUMENT NUMBER: 138:380481
 TITLE: Sequences of soybean seed specific 7S α promoters
 and use for expressing genes in plants
 INVENTOR(S): Wang, Qi; Dubois, Patrice
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 38 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003093828	A1	20030515	US 2002-235618	20020905
WO 2003020016	A2	20030313	WO 2002-US30374	20020905
WO 2003020016	A3	20040506		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1440151	A2	20040728	EP 2002-775982	20020905
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
PRIORITY APPLN. INFO.:			US 2001-316975P	P 20010905
			WO 2002-US30374	W 20020905

L2 ANSWER 5 OF 12 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN DUPLICATE 1
 ACCESSION NUMBER: 2003:433121 BIOSIS
 DOCUMENT NUMBER: PREV200300433121
 TITLE: Scale-up of Artemisia annua L. hairy root cultures produces
 complex patterns of terpenoid gene expression.
 AUTHOR(S): Souret, Frederic F.; Kim, Yoojeong; Wyslouzil, Barbara E.;

CORPORATE SOURCE: Wobbe, Kristin K.; Weathers, Pamela J. [Reprint Author]
Department of Biology and Biotechnology, Worcester
Polytechnic Institute, Worcester, MA, 01609, USA
weathers@wpi.edu

SOURCE: Biotechnology and Bioengineering, (September 20 2003) Vol.
83, No. 6, pp. 653-667. print.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 17 Sep 2003
Last Updated on STN: 17 Sep 2003

=> d 12 7-12 ti

- L2 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
TI Generation of transgenic **plants** with enhanced tocopherol concentrations by cloning microbial gene **tyrA**
- L2 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
TI Carotenoid production from a single carbon substrate
- L2 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
TI 1-Deoxy-D-xylulose 5-phosphate synthase, the gene product of open reading frame (ORF) 2816 and ORF 2895 in *Rhodobacter capsulatus*
- L2 ANSWER 10 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
TI Silencing of HMW glutenins in transgenic wheat expressing extra HMW subunits.
- L2 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI Terpenoid biosynthesis via a non mevalonic acid pathway in **transformed** roots of *Artemisia annua* L.: Cloning and expression of **DXS** and **DXR**.
- L2 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI THE SIMULTANEOUS ANTAGONISTIC EFFECTS OF A T CELL HYBRIDOMA PRODUCT ON THE GROWTH AND THE MATURATION OF ACTIVATED LYMPHOCYTES.

=> d 12 8 11 ibib ab

L2 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:172119 CAPLUS
DOCUMENT NUMBER: 136:231339
TITLE: Carotenoid production from a single carbon substrate
INVENTOR(S): Brzostowicz, Patricia C.; Cheng, Qiong; Dicosimo, Deana J.; Koffas, Mattheos; Miller, Edward S.; Odom, J. Martin; Picataggio, Stephen K.; Rouviere, Pierre E.
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 156 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----

WO 2002018617	A2	20020307	WO 2001-US27420	20010904
WO 2002018617	A3	20030522		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002142408	A1	20021003	US 2001-938956	20010824
US 2003003528	A1	20030102	US 2001-941947	20010829
AU 2001088699	A5	20020313	AU 2001-88699	20010904
EP 1328639	A2	20030723	EP 2001-968453	20010904
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
NO 2003000343	A	20030403	NO 2003-343	20030123
US 2004077068	A1	20040422	US 2003-363567	20030904
US 2004063143	A1	20040401	US 2003-700003	20031103
US 2004147011	A1	20040729	US 2003-701200	20031104
PRIORITY APPLN. INFO.:				
US 2000-229858P P 20000901				
US 2000-229907P P 20000901				
US 2001-934868 A3 20010822				
US 2001-934903 A3 20010822				
WO 2001-US27420 W 20010904				

AB A method for the production of carotenoid compds. is disclosed. The method relies on the use of microorganisms which metabolize single carbon substrates for the production of carotenoid compds. in high yields. Thus Methylomonas strain 16a was genetically enhanced to produce β -carotene and zeaxanthin from methane.

L2 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

ACCESSION NUMBER: 2000:339747 BIOSIS

DOCUMENT NUMBER: PREV200000339747

TITLE: Terpenoid biosynthesis via a non mevalonic acid pathway in **transformed** roots of Artemisia annua L.: Cloning and expression of **DXS** and **DXR**.

AUTHOR(S): Souret, F. F. [Reprint author]; Wobbe, K. K.; Weathers, P. J. [Reprint author]

CORPORATE SOURCE: Dept. of Biology/Biotechnology, Worcester Polytechnic Institute, Worcester, MA, 01609, USA

SOURCE: In Vitro Cellular and Developmental Biology Animal, (March, 2000) Vol. 36, No. 3 Part 2, pp. 61.A. print.
Meeting Info.: Meeting of the Society for In Vitro Biology World Congress on In Vitro Biology. San Diego, California, USA. June 10-15, 2000.
ISSN: 1071-2690.

DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
Conference; (Meeting Poster)

LANGUAGE: English

ENTRY DATE: Entered STN: 10 Aug 2000
Last Updated on STN: 7 Jan 2002

=> s dxos and tocopherol and plant and transform?

L6 0 DXOS AND TOCOPHEROL AND PLANT AND TRANSFORM?

=> s dxos and plant and transform?

L7 0 DXOS AND PLANT AND TRANSFORM?

=> s doxs and plant and transform?

L8 1 DOXS AND PLANT AND TRANSFORM?

=> d 18 ti

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Involvement of the Arabidopsis α -DOX1 fatty acid dioxygenase in protection against oxidative stress and cell death

=> d 12 6 ti

L2 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
TI Metabolic engineering of the mevalonate and non-mevalonate pathways in tomato

=> d 12 6 ibib

L2 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:744567 CAPLUS
DOCUMENT NUMBER: 140:400936
TITLE: Metabolic engineering of the mevalonate and non-mevalonate pathways in tomato
AUTHOR(S): Enfissi, E. M.; Fraser, P. D.; Lois, L. M.; Boronat, A.; Schuch, W.; Bramley, P. M.
CORPORATE SOURCE: School of Biological Sciences, Royal Holloway, University of London, Egham, Surrey, TW20 0EX, UK
SOURCE: Advanced Research on Plant Lipids, Proceedings of the International Symposium on Plant Lipids, 15th, Okazaki, Japan, May 12-17, 2002 (2003), Meeting Date 2002, 237-240. Editor(s): Murata, Norio. Kluwer Academic Publishers: Dordrecht, Neth.
CODEN: 69ENJ3; ISBN: 1-4020-1105-9
DOCUMENT TYPE: Conference
LANGUAGE: English
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 14 1-10 ti

L4 ANSWER 1 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI Chimeric hydroxyl-phenyl pyruvate dioxygenase, DNA sequence and method for obtaining **plants** containing such a gene, with herbicide tolerance.

L4 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Plant** genes for sequence homologs of phytol kinase of tocopherol biosynthesis and their use in engineering **plant** tocopherol profiles and drought resistance

L4 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Transformed plants** with biosynthesis of improved prenylquinones

L4 ANSWER 4 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI The crystal structures of Zea mays and Arabidopsis 4-hydroxyphenylpyruvate dioxygenase. DUPLICATE 1

L4 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Plant** genes encoding methyltransferase products involved in tocopherol biosynthesis and their use in **transforming**

plants for modified tocopherol composition

- L4 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Plant** genes for sequence homologs of methyltransferases of tocopherol biosynthesis and their use in engineering **plant** tocopherol profiles
- L4 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
TI Sequences of soybean seed specific 7S α promoters and use for expressing genes in **plants**
- L4 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
TI Generation of transgenic **plants** with enhanced tocopherol concentrations by cloning microbial gene tyrA
- L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
TI Use of hydroxyphenylpyruvate dioxygenase inhibitors as selection agents in **plant transformation**
- L4 ANSWER 10 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
DUPLICATE 2
TI cDNA-cloning and functional expression of hydroxyphenylpyruvate dioxygenase from cell suspension cultures of Coleus blumei.

=> d 14 10 ibib ab

L4 ANSWER 10 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
DUPLICATE 2

ACCESSION NUMBER: 2003:68888 BIOSIS
DOCUMENT NUMBER: PREV200300068888
TITLE: cDNA-cloning and functional expression of hydroxyphenylpyruvate dioxygenase from cell suspension cultures of Coleus blumei.

AUTHOR(S): Kim, Kyung Hee; Petersen, Maike [Reprint Author]

CORPORATE SOURCE: Institut fuer Pharmazeutische Biologie,
Philipps-Universitaet Marburg, Deutschhausstr. 17 A,
D-35037, Marburg, Germany
petersen@mail.uni-marburg.de

SOURCE: Plant Science (Oxford), (November 2002) Vol. 163, No. 5,
pp. 1001-1009. print.
ISSN: 0168-9452 (ISSN print).

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 29 Jan 2003
Last Updated on STN: 29 Jan 2003

AB The full-length cDNA of hydroxyphenylpyruvate dioxygenase (**HPPD**; E.C. 1.13.11.27) was cloned from Coleus blumei (Lamiaceae) by polymerase chain reaction with primer sequences deduced from already known **HPPDs**. The cloned cDNA had a length of 1657 base pairs containing an open reading frame (ORF) of 1308 base pairs which coded for a protein of 436 amino acid residues with a calculated molecular mass of 47 736 Da. Identities of 62.7-76.0% on amino acid level and 64.8-74.9% on nucleotide level were shown to **HPPDs** from other **plant** sources.

HPPD transforms 4-hydroxyphenylpyruvate to homogentisate and, therefore, competes for the same substrate as hydroxyphenylpyruvate reductase (**HPPR**), an enzyme of rosmarinic acid (RA) biosynthesis from C. blumei. The ORF of **HPPD** was ligated into the expression vector pTrc99A and transferred into Escherichia coli DH5alpha. **HPPD** was functionally expressed after induction with isopropyl-beta-D-thiogalactoside (IPTG). Highest specific activities of **HPPD** were observed in bacterial protein extracts 5 h after induction. At the same time point the highest homogentisate concentration (110 nmol/ml) was measured in the cell-free media. The excretion of homogentisate was

accompanied by a successive browning of the medium due to the formation of oxidation and polymerization products of homogentisate. The enzyme characteristics of the heterologously expressed *C. blumei* **HPPD** were determined.

=> d 14 20 ibib ab

L4 ANSWER 20 OF 20 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

ACCESSION NUMBER: 2004:20529 AGRICOLA
DOCUMENT NUMBER: IND43624802
TITLE: The crystal structures of *Zea mays* and *Arabidopsis* 4-hydroxyphenylpyruvate dioxygenase.
AUTHOR(S): Fritze, I.M.; Linden, L.; Freigang, J.; Auerbach, G.; Huber, R.; Steinbacher, S.
AVAILABILITY: DNAL (450 P692)
SOURCE: Plant physiology, p. 1388-1400
ISSN: 0032-0889
NOTE: Includes references
DOCUMENT TYPE: Article; Conference
FILE SEGMENT: Other US
LANGUAGE: English

AB The transformation of 4-hydroxyphenylpyruvate to homogentisate, catalyzed by 4-hydroxyphenylpyruvate dioxygenase (**HPPD**), plays an important role in degrading aromatic amino acids. As the reaction product homogentisate serves as aromatic precursor for prenylquinone synthesis in plants, the enzyme is an interesting target for herbicides. In this study we report the first x-ray structures of the plant **HPPDs** of *Zea mays* and *Arabidopsis* in their substrate-free form at 2.0 angstrom and 3.0 angstrom resolution, respectively. Previous biochemical characterizations have demonstrated that eukaryotic enzymes behave as homodimers in contrast to prokaryotic **HPPDs**, which are homotetramers. Plant and bacterial enzymes share the overall fold but use orthogonal surfaces for oligomerization. In addition, comparison of both structures provides direct evidence that the C-terminal helix gates substrate access to the active site around a nonheme ferrous iron center. In the *Z. mays* **HPPD** structure this helix packs into the active site, sequestering it completely from the solvent. In contrast, in the *Arabidopsis* structure this helix tilted by about 60(degree) into the solvent and leaves the active site fully accessible. By elucidating the structure of plant **HPPD** enzymes we aim to provide a structural basis for the development of new herbicides.

=> d 14 1 ibib

L4 ANSWER 1 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
ACCESSION NUMBER: 2004:339439 BIOSIS
DOCUMENT NUMBER: PREV200400344924
TITLE: Chimeric hydroxyl-phenyl pyruvate dioxygenase, DNA sequence and method for obtaining plants containing such a gene, with herbicide tolerance.
AUTHOR(S): Boudec, Philippe [Inventor, Reprint Author]; Bourdon, Helene [Inventor]; Dumas, Florence [Inventor]; Rodgers, Matthew [Inventor]; Sailland, Alain [Inventor]
CORPORATE SOURCE: Lyons, France
ASSIGNEE: Bayer CropScience SA, Lyons, France
PATENT INFORMATION: US 6768044 July 27, 2004
SOURCE: Official Gazette of the United States Patent and Trademark

Office Patents, (July 27 2004) Vol. 1284, No. 4.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).

DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 11 Aug 2004
Last Updated on STN: 11 Aug 2004

=> d 14 11-15 ibib

L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:894133 CAPLUS
DOCUMENT NUMBER: 138:300477
TITLE: Overexpression of the enzyme p-hydroxyphenolpyruvate dioxygenase in *Arabidopsis* and its relation to tocopherol biosynthesis
AUTHOR(S): Tsegaye, Yoseph; Shintani, David K.; DellaPenna, Dean
CORPORATE SOURCE: Department of Biochemistry/MS200, University of Nevada, Reno, NV, 89557, USA
SOURCE: Plant Physiology and Biochemistry (Paris, France) (2002), 40(11), 913-920
CODEN: PPBTEX; ISSN: 0981-9428
PUBLISHER: Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:88852 CAPLUS
DOCUMENT NUMBER: 136:243262
TITLE: Mesotrione: Mechanism of herbicidal activity and selectivity in corn
AUTHOR(S): Hawkes, T. R.; Holt, D. C.; Andrews, C. J.; Thomas, P. G.; Langford, M. P.; Hollingworth, S.; Mitchell, G.
CORPORATE SOURCE: Jealott's Hill International Research Centre, Syngenta, Bracknell, RG42 6EY, UK
SOURCE: BCPC Conference--Weeds (2001), (Vol. 2), 563-568
CODEN: BCCOBC
PUBLISHER: British Crop Protection Council
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:543076 CAPLUS
DOCUMENT NUMBER: 135:176638
TITLE: From inhibitors to target site genes and beyond-herbicidal inhibitors as powerful tools for functional genomics
AUTHOR(S): Zhen, Rui-Guang; Singh, Bijay K.
CORPORATE SOURCE: BASF Plant Science, BASF Corporation, Princeton, NJ, 08543-0400, USA
SOURCE: Weed Science (2001), 49(2), 266-272
CODEN: WEESA6; ISSN: 0043-1745
PUBLISHER: Weed Science Society of America
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on

STN

DUPLICATE 3

ACCESSION NUMBER: 2000:392892 BIOSIS
 DOCUMENT NUMBER: PREV200000392892
 TITLE: Combined use of ^{13}C - and ^{19}F -NMR to analyse the mode of action and the metabolism of the herbicide isoxaflutole.
 AUTHOR(S): Aubert, Serge [Reprint author]; Pallett, Kenneth E.
 CORPORATE SOURCE: DBMS-PCV, CEA-Grenoble, 17, rue des Martyrs, 38054, Grenoble cedex, 9, France
 SOURCE: Plant Physiology and Biochemistry (Paris), (June, 2000) Vol. 38, No. 6, pp. 517-523. print.
 DOCUMENT TYPE: Article
 LANGUAGE: English
 ENTRY DATE: Entered STN: 13 Sep 2000
 Last Updated on STN: 8 Jan 2002

L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:350752 CAPLUS
 DOCUMENT NUMBER: 131:1430
 TITLE: Chimeric light-dependent promoter hydroxyphenylpyruvate dioxygenase gene and transgenic herbicide-resistant plants
 INVENTOR(S): Reygnier, Luc; Sailland, Alain
 PATENT ASSIGNEE(S): Rhone Poulenc Agro, Fr.
 SOURCE: PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9925842	A1	19990527	WO 1998-FR2414	19981113
W: AL, AU, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HR, HU, ID, IL, IS, JP, KP, KR, KZ, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2771104	A1	19990521	FR 1997-14591	19971117
FR 2771104	B1	20001208		
CA 2309880	AA	19990527	CA 1998-2309880	19981113
AU 9911628	A1	19990607	AU 1999-11628	19981113
AU 747634	B2	20020516		
EP 1032681	A1	20000906	EP 1998-954565	19981113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
BR 9815628	A	20001024	BR 1998-15628	19981113
PRIORITY APPLN. INFO.:			FR 1997-14591	A 19971117
			WO 1998-FR2414	W 19981113
REFERENCE COUNT:	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

=> d 14 15-19 ibib

L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:350752 CAPLUS
 DOCUMENT NUMBER: 131:1430
 TITLE: Chimeric light-dependent promoter hydroxyphenylpyruvate dioxygenase gene and transgenic herbicide-resistant plants
 INVENTOR(S): Reygnier, Luc; Sailland, Alain

PATENT ASSIGNEE(S) : Rhone Poulenc Agro, Fr.
 SOURCE: PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9925842	A1	19990527	WO 1998-FR2414	19981113
W: AL, AU, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HR, HU, ID, IL, IS, JP, KP, KR, LZ, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2771104	A1	19990521	FR 1997-14591	19971117
FR 2771104	B1	20001208		
CA 2309880	AA	19990527	CA 1998-2309880	19981113
AU 9911628	A1	19990607	AU 1999-11628	19981113
AU 747634	B2	20020516		
EP 1032681	A1	20000906	EP 1998-954565	19981113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
BR 9815628	A	20001024	BR 1998-15628	19981113
PRIORITY APPLN. INFO.:			FR 1997-14591	A 19971117
			WO 1998-FR2414	W 19981113
REFERENCE COUNT:	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L4 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:326059 CAPLUS
 DOCUMENT NUMBER: 130:349039
 TITLE: A herbicide-resistant 4-hydroxyphenyl pyruvate dioxygenase and the gene encoding it and the development of herbicide-tolerant transgenic plants
 INVENTOR(S) : Boudec, Philippe; Bourdon, Helene; Dumas, Florence; Rodgers, Matthew; Sailland, Alain
 PATENT ASSIGNEE(S) : Rhone-Poulenc Agro, Fr.
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9924585	A1	19990520	WO 1998-FR2374	19981106
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HR, HU, ID, IL, IS, JP, KP, KR, LZ, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2770854	A1	19990514	FR 1997-14264	19971107
FR 2770854	B1	20011130		
ZA 9810076	A	19990507	ZA 1998-10076	19981104
CA 2309322	AA	19990520	CA 1998-2309322	19981106
AU 9911603	A1	19990531	AU 1999-11603	19981106
AU 749323	B2	20020620		

EP 1029059	A1	20000823	EP 1998-954530	19981106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001522608	T2	20011120	JP 2000-520579	19981106
US 6768044	B1	20040727	US 2000-567615	20000510
PRIORITY APPLN. INFO.:			FR 1997-14264	A 19971107
			WO 1998-FR2374	W 19981106
REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L4 ANSWER 17 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

ACCESSION NUMBER: 2003:144239 BIOSIS
 DOCUMENT NUMBER: PREV200300144239
 TITLE: The role of two dioxygenases in regulating vitamin E biosynthesis.
 AUTHOR(S): Tsegaye, Yoseph [Reprint Author]; Shintani, David [Reprint Author]; DellaPenna, Dean [Reprint Author]
 CORPORATE SOURCE: University of Nevada-Reno, Reno, NV, USA
 ytsegaye@med.unr.edu
 SOURCE: Plant Biology (Rockville), (1999) Vol. 1999, pp. 100-101.
 print.
 Meeting Info.: Annual Meeting of the American Society of Plant Physiologists. Baltimore, Maryland, USA. July 24-28, 1999. American Society of Plant Physiologists (ASPP).
 DOCUMENT TYPE: Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LANGUAGE: English
 ENTRY DATE: Entered STN: 19 Mar 2003
 Last Updated on STN: 19 Mar 2003

L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:106000 CAPLUS
 DOCUMENT NUMBER: 128:176962
 TITLE: 4-Hydroxyphenylpyruvate dioxygenase gene from Arabidopsis thaliana and screening for enzyme inhibitors and herbicides
 INVENTOR(S): Sturmer, Stephen; Hirayama, Lynne Miyo; Singh, Bijay; Bascomb, Newell
 PATENT ASSIGNEE(S): American Cyanamid Company, USA
 SOURCE: PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9804685	A1	19980205	WO 1997-US14351	19970725
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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DOCUMENT NUMBER:	133:161821			
TITLE:	Plant p-hydroxyphenylpyruvate dioxygenase: a target for new bleaching herbicides			
AUTHOR(S):	Garcia, I.; Rodgers, M.; Pepin, R.; Hsieh, Tzung-Fu; Matringe, M.			
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SOURCE:	Photosynthesis: Mechanisms and Effects, Proceedings of the International Congress on Photosynthesis, 11th, Budapest, Aug. 17-22, 1998 (1998), Volume 5, 3861-3864. Editor(s): Garab, Gyozo. Kluwer Academic Publishers: Dordrecht, Neth.			
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